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APPLICANT : KYOWA HAKKO KOGYO CO LTD;

INVENTOR : IKEDA MASATO;

INT.CL. : C12P 13/22 // (C12P 13/22, C12R 1:15)

TITLE : PRODUCTION OF AROMATIC AMINO ACID

ABSTRACT : PURPOSE: To obtain, through a fermentation process, the title amino acid useful for fields such as of medicine, food and feed by incubating in a medium specific microorganisms belonging to *Corynebacterium* sp. etc.

CONSTITUTION: The objective amino acid can be obtained by incubating, in a medium, microorganisms (e.g. *Corynebacterium glutamicum* ATCC 13032, *Brevibacterium flavum* ATCC 14067) belonging to *Corynebacterium* or *Brevibacterium* sp., markedly reduced in intake activity for at least one aromatic amino acid selected from L-tryptophan, L-tyrosine and L-phenylalanine and having productivity for such amino acid(s).

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M2 - [01] D011 D601 H1 H100 H181 J0 J011 J1 J171 M280 M312 M321 M332 M343
M349 M371 M391 M412 M511 M520 M530 M540 M720 M903 M904 M910 N131 N135
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- [02] G013 G100 H1 H100 H181 H4 H401 H441 H8 J0 J011 J1 J171 M280 M312
M321 M332 M343 M349 M371 M391 M414 M510 M520 M531 M540 M720 M903 M904
M910 N131 N135 Q233; R04099-P

- [03] G010 G100 H1 H100 H181 J0 J011 J1 J171 M280 M312 M321 M332 M343
M349 M371 M391 M414 M510 M520 M531 M540 M720 M903 M904 M910 N131 N135
Q233; R03941-P

M3 - [01] D011 D601 H1 H100 H181 J0 J011 J1 J171 M280 M312 M321 M332 M343
M349 M371 M391 M412 M511 M520 M530 M540 M720 M903 M904 M910 N131 N135
Q233; R03943-P

- [02] G013 G100 H1 H100 H181 H4 H401 H441 H8 J0 J011 J1 J171 M280 M312
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XIC - C12P-013/22 ; C12R-001/15 ; (C12P-013/22 C12R-001/15) ; (C12P-013/22
C12R-001/13)

AB - J04011893 A microbe belonging to *Corynebacterium* genus or
Brevibacterium genus and having a remarkably lowered activity of
incorporating at least one aromatic aminoacid selected from
L-tryptophan (I), L-tyrosine (II) and L-phenylalanine (III) and having
productivity of at least one aromatic aminoacid selected from (I),
(II) and (III) is cultured and the aromatic aminoacid which can be
produced by the microbe is formed and accumulated in the culture and
the aminoacid is collected from culture.

- USE/ADVANTAGE - The method can improve the productivity of (I), (II)
or (III). (7pp Dwg.No 0/0

C - C12P13/22 C12R1/15

- C12P13/22 C12R1/13

CN - R03943-P R04099-P R03941-P

IW - HiGH PRODUCE PREPARATION AROMATIC AMINOACID COMPRISE CULTURE
CORYNEBACTERIUM BREVIBACTERIUM MICROBE LOWER ACTIVE PRODUCE SPECIFIED
AMINOACID

IKW - HIGH PRODUCE PREPARATION AROMATIC AMINOACID COMPRISE CULTURE

**CORYNEBACTERIUM BREVIBACTERIUM MICROBE LOWER ACTIVE PRODUCE SPECIFIED
AMINOACID**

NC - 001

OPD - 1990-04-26

ORD - 1992-01-16

PAW - (KYOW) KYOWA HAKKO KOGYO KK

**TI - Highly productive prepn. of aromatic aminoacid - comprises culturing
corynebacterium or brevibacterium microbe with lowered activity and
productivity of specified aminoacid(s)**